

Amendment under 37 C.F.R. §1.312
Serial No. 10/790,760
Attorney Docket No. 042161
Amendment Filed: January 20, 2006

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 8, line 32 and extending to page 9, line 5 as follows:

Fig. 2 shows the relative permittivity versus atomic percent Y for Y doping with $(\text{Ba}+\text{Sr})/\text{Ti} < 1$ and $(\text{Ba}+\text{Sr})/\text{Ti} > 1$ with the Ba/Sr ratio held fixed at $7/3$ and $z = \delta = 0$. As shown in Fig. 2, significant differences in the effect of Y doping on the capacitance density occur depending on whether $(\text{Ba}+\text{Sr})/\text{Ti} < 1$ Y or $(\text{Ba}+\text{Sr})/\text{Ti} > 1$ Y. Optimum relative permittivity is achieved for $(\text{Ba}+\text{Sr})/\text{Ti} < 1$ (~~predominantly A-site substitution~~) and $0.007 < y < 0.018$.

Please amend the paragraph beginning on page 9, line 11 as follows:

Fig. 4 shows the leakage currents versus atomic percent Y for the case $(\text{Ba} + \text{Sr}) / \text{Ti} < 1$, $\text{Ba} / \text{Sr} = 7 / 3$, and $z = \delta = 0$. As shown in Fig. 4, Y doping with ~~$(\text{Ba} + \text{Sr}) / \text{Ti}$~~ $(\text{Ba} + \text{Sr}) / \text{Ti} < 1$ improves leakage currents.